

**RUBBER COMPOSITION FOR A TIRE
COMPRISING A COUPLING AGENT HAVING A POLYTHIOSULFENAMIDE FUNCTION**

ABSTRACT

An elastomeric composition usable for the manufacture of tires, based on at least (i) a diene elastomer, (ii) an inorganic filler as reinforcing filler and (iii), as (inorganic filler/diene elastomer) coupling agent, a polysilylated organosilicon compound which is at least bifunctional and can be grafted onto the elastomer by means of a sulfur group having a polythiosulfenamide function, of formula:



in which:

- A is a divalent bond group, whether straight-chain or branched, which makes it possible to join the polythiosulfenamide group to a first silicon atom of the organosilicon compound;
- x is an integer or fractional number of from 2 to 4;
- R¹ represents hydrogen, a monovalent hydrocarbon group, or R²; and
- R² represents the grouping:



in which:

- B is a divalent bond group, whether straight-chain or branched;
- Si represents a second silicon atom of the organosilicon compound.

The invention also concerns tires and tire treads comprising a composition of this type.